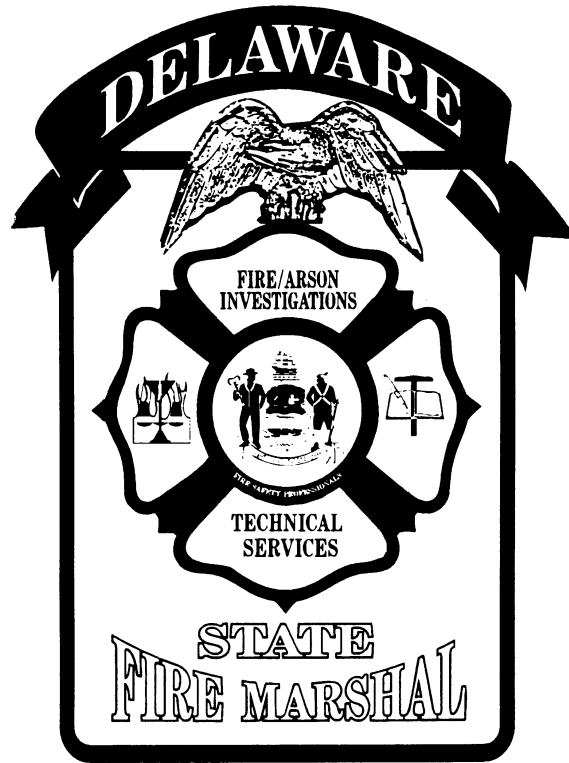


**EXAMINATION REQUIREMENTS
FOR
FIRE SUPPRESSION SYSTEM
CERTIFICATION**



**AS PRESCRIBED BY
THE STATE FIRE PREVENTION COMMISSION
ON JANUARY 15, 1993
IN ACCORDANCE WITH
THE STATE FIRE PREVENTION REGULATIONS
PART III, CHAPTERS 5 AND 7**

**EXAMINATION REQUIREMENTS
FOR
FIRE SUPPRESSION SYSTEM
CERTIFICATION**

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Classification of Fire Suppression System Certificate
As per the State Fire Prevention Regulations
Part III, Chapters 5 and 7

Class	Type of work that may be performed
I	All types of fire suppression systems under Classes II, III, and IV.
II	Sprinkler and Standpipe Systems.
IIIa	Engineered CO2 fire suppression systems.
IIIb	Engineered clean agent fire suppression systems.
IIIc	Engineered foam fire suppression systems.
IIId	Engineered dry chemical fire suppression systems.
IV	Residential fire suppression systems (Typical of NFPA 13D systems)
Va	Pre-engineered CO2 fire suppression systems only.
Vb	Pre-engineered Halon fire suppression systems only.
Vc	Pre-engineered foam fire suppression systems only.
Vd	Pre-engineered dry chemical fire suppression systems only.
Ve	Pre-engineered wet chemical fire suppression systems only.
VI	Inspection, Testing and Maintenance, ONLY, of all Systems.
VIII	Inspection, Testing and Maintenance of In-House Licensed Systems, ONLY.

Examination Requirements for Fire Suppression System Certification
As per the State Fire Prevention Regulations
Part III, Chapters 5 and 7

Table 2

Cert. Class	Examination Requirements
I	Successfully complete "SFPR Exam" Successfully complete "Class IV Certification Exam" Successfully complete "Class II Certification Exam" Successfully complete "Class IIIa, IIIb, IIIc and IIId Certification Exams" (See Notes 1 and 2 on Page 5)
II	Successfully complete "SFPR Exam" Successfully complete "Class II Certification Exam" (See Note 1 on Page 7)
IIIa	Successfully complete "SFPR Exam" Successfully complete "Class IIIa Certification Exam" (See Note 2 on Page 9)
IIIb	Successfully complete "SFPR Exam" Successfully complete "Class IIIb Certification Exam" (See Note 2 on Page 11)
IIIc	Successfully complete "SFPR Exam" Successfully complete "Class IIIc Certification Exam" (See Note 2 on Page 13)
IIId	Successfully complete "SFPR Exam" Successfully complete "Class IIId Certification Exam" (See Note 2 on Page 15)
IV	Successfully complete "SFPR Exam" Successfully complete "Class IV Certification Exam"
Va-Ve	Successfully complete "SFPR Exam" Provide proper Manufacturers Certification
VI	Successfully complete "SFPR Exam" Successfully complete "Class IV Certification Exam" Successfully complete "Class II Certification Exam" Successfully complete "Class III Combined Certification Exam" (See Notes 1 and 2 on Page 20)
VIII	Successfully complete "SFPR Exam" Successfully complete "Class IV Certification Exam" Successfully complete "Class II Certification Exam" Successfully complete "Class III Combined Certification Exam" (See Notes 1-4 on page 23)

CLASS I FIRE SUPPRESSION SYSTEM CERTIFICATE EXAMINATIONS

Section 1 – Scope of work which may be performed

A Class I Fire Suppression System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain Fire suppression Systems under Class II, III and IV Certificates.

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class II Certification Examination (FSS Class II Exam)

(Note 1)

The Fire Suppression System Class II Certificate Exam is an exam consisting of questions from the following 37 NICET work elements. Successful completion of this exam requires passing all 37 work elements.

- 11001 – PLANS, SPECIFICATIONS AND CONTRACTS
- 11002 – PREPARE SIMPLE DESIGNS
- 11003 – NFPA STANDARDS
- 11004 – BASICS OF SPRINKLER SYSTEMS
- 11005 – BASIC MATERIALS AND COMPONENTS
- 13001 – CONSTRUCTION PLANS
- 13002 – FIRE PROTECTION PLANS AND SYMBOLS
- 13005 – BASIC OF SYSTEM LAYOUT
- 13006 – CLASSIFICATIONS OF OCCUPANCIES
- 13007 – WATER SUPPLY REQUIREMENTS
- 13008 – SYSTEM CONNECTIONS
- 13009 – SYSTEM PIPING CONFIGURATIONS, SCHEDULES AND SIZES
- 13010 – REQUIREMENTS OF SPACING
- 13011 – SPRINKLER LOCATION AND POSITION
- 13012 – PIPE JOINING TECHNIQUES AND FITTINGS
- 13013 – PIPE HANGERS AND HANGING
- 13014 – WET AND DRY SYSTEMS
- 13015 – HYDRAULIC CALCULATIONS OF SYSTEMS
- 13016 – UNDERGROUND PIPING
- 13017 – BUILDING CODES
- 13023 – SPECIAL SPRINKLERS
- 13024 – WATER FLOW TESTS
- 13025 – FUNDAMENTALS OF HYDRAULICS
- 14002 – SELECTION OF FIRE PUMPS
- 14004 – PUMP FLOW TEST
- 14005 – HIGH PILED STORAGE
- 14006 – RACK STORAGE
- 14007 – SPRINKLER SYSTEM MAINTENANCE
- 14009 – STANDPIPE SYSTEMS
- 14010 – FIRE PUMPS AND SYSTEMS
- 14011 – STORAGE TANKS
- 14012 – ALARMS AND SYSTEM SUPERVISION
- 14013 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
- 14016 – SURVEYS FOR FIRE PROTECTION
- 15005 – SHOP AND ERECTION DRAWINGS
- 15007 – SYSTEM ACCEPTANCE TESTS
- 15016 – HYDRAULIC DESIGN AREA

Combination of all Fire Suppression System Class IIIa thru IIIc Certification Exams

(FSS Class IIIa thru IIIc Exams)

(Note 2)

To meet the Exam Requirements for FSS Class I, the applicant must successfully complete all 32 required NICET work elements for FSS Class IIIa thru IIIc. The 32 work elements required are as follows:

- 51001 – SIMPLE PLANS AND SPECIFICATIONS
- 51002 – NFPA STANDARDS
- 51003 – SPRINKLER AND FIRE SUPPRESSION SYSTEMS
- 51005 – STANDARD SYMBOLS
- 52004 – LAYOUT SIMPLE DESIGNS
- 53002 – HAZARD ANALYSIS
- 53003 – DETECTION METHODS

53004 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
 53005 – EXTINGUISHING AGENTS
 53006 – SMOKE SENSING DETECTORS
 53007 – ELECTRICAL INSTALLATION STANDARDS
 53010 – HEAT SENSING DETECTORS
 53011 – FOAM WATER I
 53012 – CARBON DIOXIDE I
 54005 – FLAME DETECTORS
 54006 – FIRE GAS DETECTORS
 54007 – HALON 1301 I
 54008 – DRY CHEMICAL I
 54014 – INERGEN (IG- 541)
 54015 – FM-200 (HFC-227ea)
 54016 – FE-13 (HFC-23)
 55001 – CONSTRUCTION PLANS
 55003 – SYSTEM PIPING REQUIREMENTS
 55004 – NOZZLE AND TANK LOCATION
 56001 – HEAT SENSING PROTECTION SYSTEMS
 56002 – SMOKE SENSING PROTECTION SYSTEMS
 56003 – FLAME SENSING PROTECTION SYSTEMS
 56004 – FIRE DETECTING SYSTEMS
 56005 – FOAM WATER II
 56006 – HALON 1301 II
 56007 – CARBON DIOXIDE II
 56008 – DRY CHEMICAL II

Fire Suppression System Class IV Certification Examination (FSS Class IV Exam)

The Fire Suppression System Class IV Certification Exam is based on NFPA 13D.

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 10 -	Standard for Portable Fire Extinguishers
NFPA 11 -	Standard for Foam Extinguishing Systems
NFPA 11A -	Standard for High Expansion Foam Systems (Expansion Ratios from 100:1 to 1000:1)
NFPA 12 -	Standard on Carbon Dioxide Extinguishing Systems
NFPA 12A -	Standard on Halon 1301 Fire Extinguishing Systems
NFPA 12B -	Standard on Halon 1211 Fire Extinguishing Systems
NFPA 13 -	Standard for the Installation of Sprinkler Systems
NFPA 13D -	Sprinkler Systems in One and Two Family Dwellings and Mobile Homes
NFPA 13R -	Sprinkler Systems in Residential Occupancies Up To and Including Four Stories in Height
NFPA 14 -	Standard for the Installation of Standpipe and Hose Systems
NFPA 15 -	Standard for Water Spray Fixed Systems for Fire Protection
NFPA 16 -	Standard for the Installation of Deluge Foam-Water Sprinkler Systems and Water Spray System
NFPA 17 -	Standard for Dry Chemical Systems
NFPA 17A -	Standard on Wet Chemical Systems
NFPA 20 -	Standard for the Installation of Centrifugal Fire Pumps
NFPA 22 -	Standard for Water Tanks for Private Fire Protection
NFPA 24 -	Standard for the Installation of Fire Service Mains and Their Appurtenances
NFPA 25 -	Inspection, Testing and Maintenance of Water Based Fire Protection Systems
NFPA 70 -	National Electric Code
NFPA 72E -	Standard on Automatic Fire Detectors
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 231 -	General Storage
NFPA 231C -	Rack Storage of Materials
NFPA 409 -	Aircraft Hangars

See the NICET Sprinkler Systems and Special Hazards Program Detail Manuals for additional suggested references.

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Automatic Sprinkler System Layout, will be considered an equivalent to the FSS Class II Exam.

Note 2 – NICET Certification to Level III in Fire Protection Engineering Technology subfield of Special Hazards System Layout, will be considered an equivalent to the FSS Class III Exams.

CLASS II FIRE SUPPRESSION SYSTEM CERTIFICATE EXAMINATIONS

Section 1 – Scope of work which may be performed

A Class II Fire Suppression System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain Sprinkler and Standpipe Systems.

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class II Certification Examination (FSS Class II Exam)

(Note 1)

The Fire Suppression System Class II Certificate Exam is an exam consisting of questions from the following 37 NICET work elements. Successful completion of this exam requires passing all 37 work elements.

- 11001 – PLANS, SPECIFICATIONS AND CONTRACTS
- 11002 – PREPARE SIMPLE DESIGNS
- 11003 – NFPA STANDARDS
- 11004 – BASICS OF SPRINKLER SYSTEMS
- 11005 – BASIC MATERIALS AND COMPONENTS
- 13001 – CONSTRUCTION PLANS
- 13002 – FIRE PROTECTION PLANS AND SYMBOLS
- 13005 – BASIC OF SYSTEM LAYOUT
- 13006 – CLASSIFICATIONS OF OCCUPANCIES
- 13007 – WATER SUPPLY REQUIREMENTS
- 13008 – SYSTEM CONNECTIONS
- 13009 – SYSTEM PIPING CONFIGURATIONS, SCHEDULES AND SIZES
- 13010 – REQUIREMENTS OF SPACING
- 13011 – SPRINKLER LOCATION AND POSITION
- 13012 – PIPE JOINING TECHNIQUES AND FITTINGS
- 13013 – PIPE HANGERS AND HANGING
- 13014 – WET AND DRY SYSTEMS
- 13015 – HYDRAULIC CALCULATIONS OF SYSTEMS
- 13016 – UNDERGROUND PIPING
- 13017 – BUILDING CODES
- 13023 – SPECIAL SPRINKLERS
- 13024 – WATER FLOW TESTS
- 13025 – FUNDAMENTALS OF HYDRAULICS
- 14002 – SELECTION OF FIRE PUMPS
- 14004 – PUMP FLOW TEST
- 14005 – HIGH PILED STORAGE
- 14006 – RACK STORAGE
- 14007 – SPRINKLER SYSTEM MAINTENANCE
- 14010 – FIRE PUMPS AND SYSTEMS
- 14011 – STORAGE TANKS
- 14012 – ALARMS AND SYSTEM SUPERVISION
- 14013 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
- 14016 – SURVEYS FOR FIRE PROTECTION
- 15005 – SHOP AND ERECTION DRAWINGS
- 15007 – SYSTEM ACCEPTANCE TESTS
- 15016 – HYDRAULIC DESIGN AREA

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 10 -	Standard for Portable Fire Extinguishers
NFPA 11 -	Standard for Foam Extinguishing Systems
NFPA 11A -	Standard for High Expansion Foam Systems (Expansion Ratios from 100:1 to 1000:1)
NFPA 12 -	Standard on Carbon Dioxide Extinguishing Systems
NFPA 12A -	Standard on Halon 1301 Fire Extinguishing Systems
NFPA 12B -	Standard on Halon 1211 Fire Extinguishing Systems
NFPA 13 -	Standard for the Installation of Sprinkler Systems
NFPA 13D -	Sprinkler Systems in One and Two Family Dwellings and Mobile Homes
NFPA 13R -	Sprinkler Systems in Residential Occupancies Up To and Including Four Stories in Height
NFPA 14 -	Standard for the Installation of Standpipe and Hose Systems
NFPA 15 -	Standard for Water Spray Fixed Systems for Fire Protection

NFPA 16 -	Standard for the Installation of Deluge Foam-Water Sprinkler Systems and Water Spray Systems
NFPA 17 -	Standard for Dry Chemical Systems
NFPA 17A -	Standard on Wet Chemical Systems
NFPA 20 -	Standard for the Installation of Centrifugal Fire Pumps
NFPA 22 -	Standard for Water Tanks for Private Fire Protection
NFPA 24 -	Standard for the Installation of Fire Service Mains and Their Appurtenances
NFPA 25 -	Inspection, Testing and Maintenance of Water Based Fire Protection Systems
NFPA 70 -	National Electric Code
NFPA 71-	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	Installation, Maintenance and Use of Protective Signaling Systems
NFPA 72E -	Standard on Automatic Fire Detectors
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 170 -	Firesafety Symbols (Formerly NFPA 12)
NFPA 231 -	General Storage
NFPA 231C -	Rack Storage of Materials
NFPA 409 -	Aircraft Hangers

See the NICET Sprinkler Systems Program Detail Manual for additional suggested references.

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Automatic Sprinkler System Layout, will be considered an equivalent to the FSS Class II Exam.

CLASS IIIa FIRE SUPPRESSION SYSTEM CERTIFICATE

[Engineered CO2 Fire Suppression Systems]

Section 1 – Scope of work which may be performed

A Class IIIa Fire suppression System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain engineered carbon dioxide fire suppression systems.

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class IIIa Certification Examination (FSS Class IIIa Exam)

(Note 2)

The Fire Suppression System Class IIIa Certificate Exam is an exam consisting of questions from the following 24 NICET work elements. Successful completion of this exam requires passing all 24 work elements.

51001 – SIMPLE PLANS AND SPECIFICATIONS
51002 – NFPA STANDARDS
51003 – SPRINKLER AND FIRE SUPPRESSION SYSTEMS
51005 – STANDARD SYMBOLS
52004 – LAYOUT SIMPLE DESIGNS
53002 – HAZARD ANALYSIS
53003 – DETECTION METHODS
53004 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
53005 – EXTINGUISHING AGENTS
53006 – SMOKE SENSING DETECTORS
53007 – ELECTRICAL INSTALLATION STANDARDS
53010 – HEAT SENSING DETECTORS
53012 – CARBON DIOXIDE I
54005 – FLAME DETECTORS
54006 – FIRE GAS DETECTORS
55001 – CONSTRUCTION PLANS
55003 – SYSTEM PIPING REQUIREMENTS
55004 – NOZZLE AND TANK LOCATION
56001 – HEAT SENSING PROTECTION SYSTEMS
56002 – SMOKE SENSING PROTECTION SYSTEMS
56003 – FLAME SENSING PROTECTION SYSTEMS
56004 – FIRE DETECTING SYSTEMS
56007 – CARBON DIOXIDE II

Section 3 – Reference Materials

SFPR	Delaware State Fire Prevention Regulations
NFPA 10 -	Standard for Portable Fire Extinguishers
NFPA 11 -	Standard for Foam Extinguishing Systems
NFPA 11A -	Standard for High Expansion Foam Systems (Expansion Ratios from 100:1 to 1000:1)
NFPA 12 -	Standard on Carbon Dioxide Extinguishing Systems
NFPA 12A -	Standard on Halon 1301 Fire Extinguishing Systems
NFPA 12B -	Standard on Halon 1211 Fire Extinguishing Systems
NFPA 13 -	Standard for the Installation of Sprinkler Systems
NFPA 13D -	Sprinkler in One and Two Family Dwellings and Mobile Homes
NFPA 13R -	Sprinkler Systems in Residential Occupancies Up To and Including Four Stories in Height
NFPA 14 -	Standard for the Installation of Standpipe and Hose Systems
NFPA 15 -	Standard for Water Spray Fixed Systems for Fire Protection
NFPA 16 -	Standard for the Installation of Deluge Foam-Water Sprinkler Systems and Water Spray Systems
NFPA 17 -	Standard for Dry Chemical Systems
NFPA 17A -	Standard on Wet Chemical Extinguishing Systems
NFPA 20 -	Standard for the Installation of Centrifugal Fire Pumps
NFPA 22 -	Standard for Water Tanks for Private Fire Protection
NFPA 24 -	Standard for the Installation of Fire Service Mains and their Appurtenance
NFPA 25 -	Inspection, Testing and Maintenance of Water Based Fire Protection Systems
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	Installation, Maintenance and Use of Protective Signaling Systems
NFPA 72E -	Standard on Automatic Fire Detectors
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 170 -	Firesafety Symbols (Formerly NFPA 172)
NFPA 231 -	General Storage
NFPA 231C -	Rack Storage of Materials
NFPA 409 -	Aircraft Hangars

See the NICET Special Hazards systems Program Detail Manual for additional suggested references

Note 2 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Special Hazards System Layout, will be considered an equivalent to the FSS Class III Exams.

CLASS IIIb FIRE SUPPRESSION SYSTEM CERTIFICATE
[Engineered Clean Agent Suppression Systems]
Section 1 – Scope of work which may be performed

A Class IIIb Fire Suppression System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain engineered Clean Agent fire suppression systems.

Section 2 Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class IIIb Certification Examination (FSS Class IIIb Exam)

(Note 2)

The Fire Suppression System Class IIIb Certificate Exam is an exam consisting of questions from the following 26 NICET work elements. Successful completion of this exam passing all 26 work elements.

51001 – SIMPLE PLANS AND SPECIFICATIONS
51002 – NFPA STANDARDS
51003 – SPRINKLER AND FIRE SUPPRESSION SYSTEMS
51005 – STANDARD SYMBOLS
52004 – LAYOUT SIMPLE DESIGNS
53002 – HAZARD ANALYSIS
53003 – DETECTION METHODS
53004 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
53005 – EXTINGUISHING AGENTS
53006 – SMOKE SENSING DETECTORS
53007 – ELECTRICAL INSTALLATION STANDARDS
53010 – HEAT SENSING DETECTORS
54005 – FLAME DETECTORS
54006 – FIRE GAS DETECTORS
54007 – HALON 1301 I
54014 – INERGEN (IG- 541)
54015 – FM-200 (HFC-227ea)
54016 – FE-13 (HFC-23)
55001 – CONSTRUCTION PLANS
55003 – SYSTEM PIPING REQUIREMENTS
55004 – NOZZLE AND TANK LOCATION
56001 – HEAT SENSING PROTECTION SYSTEMS
56002 – SMOKE SENSING PROTECTION SYSTEMS
56003 – FLAME SENSING PROTECTION SYSTEMS
56004 – FIRE DETECTING SYSTEMS
56006 – HALON 1301 II

Section 3 – Reference Materials

SFPR	Delaware State Fire Prevention Regulations
NFPA 10 -	Standard for Portable Fire Extinguishers
NFPA 11 -	Standard for Foam Extinguishing Systems
NFPA 11A -	Standard for High Expansion Foam Systems (Expansion Ratios from 100:1 to 1000:1)
NFPA 12 -	Standard on Carbon Dioxide Extinguishing Systems
NFPA 12A -	Standard on Halon 1301 Fire Extinguishing Systems
NFPA 12B -	Standard on Halon 1211 Fire Extinguishing Systems
NFPA 13 -	Standard for the Installation of Sprinkler Systems
NFPA 13D -	Sprinkler Systems in One and Two Family Dwellings and Mobile Homes
NFPA 13R -	Sprinkler Systems in Residential Occupancies Up To and Including Four Stories in Height
NFPA 14 -	Standard for the Installation of Standpipe and Hose Systems
NFPA 15 -	Standard for Water Spray Fixed Systems for Fire Protection
NFPA 16 -	Standard for the Installation of Deluge Foam-Water Sprinkler Systems and Water Spray Systems
NFPA 17 -	Standard for Dry Chemical Systems
NFPA 17A -	Standard on Wet Chemical Systems
NFPA 20 -	Standard for the Installation of Centrifugal Fire Pumps
NFPA 22 -	Standard for Water Tanks for Private Fire Protection
NFPA 24 -	Standard for the Installation of Fire Service Mains and Their Appurtenances
NFPA 25 -	Inspection, Testing and Maintenance of Water Based Fire Protection Systems
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	Installation, Maintenance and Use of Protective Signaling Systems
NFPA 72E -	Standard on Automatic Fire Detectors

NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 170 -	Firesafety Symbols (Formerly NFPA 12)
NFPA 231 -	General Storage
NFPA 231C -	Rack Storage of Materials
NFPA 409 -	Aircraft Hangers

See the NICET Special Hazards Systems Program Detail Manual for additional suggested

Note 2 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Special Hazards System Layout, will be considered an equivalent to the FSS Class III Exams.

CLASS IIIc FIRE SUPPRESSION SYSTEM CERTIFICATE
[Engineered Foam Fire Suppression Systems]
Section 1 – Scope of work which may be performed

A Class IIIc Fire Suppression System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain engineered foam fire suppression systems.

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class IIIc Certificate Examination (FSS IIIc Exam)

(Note 2)

The Fire Suppression System Class IIIc Certificate Exam is an exam consisting of questions from the following 23 NICET work elements. Successful completion of this exam requires passing all 23 work elements.

51001 – SIMPLE PLANS AND SPECIFICATIONS
51002 – NFPA STANDARDS
51003 – SPRINKLER AND FIRE SUPPRESSION SYSTEMS
51005 – STANDARD SYMBOLS
52004 – LAYOUT SIMPLE DESIGNS
53002 – HAZARD ANALYSIS
53003 – DETECTION METHODS
53004 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
53005 – EXTINGUISHING AGENTS
53006 – SMOKE SENSING DETECTORS
53007 – ELECTRICAL INSTALLATION STANDARDS
53010 – HEAT SENSING DETECTORS
53011 – FOAM WATER I
54005 – FLAME DETECTORS
54006 – FIRE GAS DETECTORS
55001 – CONSTRUCTION PLANS
55003 – SYSTEM PIPING REQUIREMENTS
55004 – NOZZLE AND TANK LOCATION
56001 – HEAT SENSING PROTECTION SYSTEMS
56002 – SMOKE SENSING PROTECTION SYSTEMS
56003 – FLAME SENSING PROTECTION SYSTEMS
56004 – FIRE DETECTING SYSTEMS
56005 – FOAM WATER II

Section 3 – Reference Materials

SFPR	Delaware State Fire Prevention Regulations
NFPA 10 -	Standard for Portable Fire Extinguishers
NFPA 11 -	Standard for Foam Extinguishing Systems
NFPA 11A -	Standard for High Expansion Foam Systems (Expansion Ratios from 100:1 to 1000:1)
NFPA 12 -	Standard on Carbon Dioxide Extinguishing Systems
NFPA 12A -	Standard on Halon 1301 Fire Extinguishing Systems
NFPA 12B -	Standard on Halon 1211 Fire Extinguishing Systems
NFPA 13 -	Standard for the Installation of Sprinkler Systems
NFPA 13D -	Sprinkler Systems in One and Two Family Dwellings and Mobile Homes
NFPA 13R -	Sprinkler Systems in Residential Occupancies Up To and Including Four Stories in Height
NFPA 14 -	Standard for the Installation of Standpipe and Hose Systems
NFPA 15 -	Standard for Water Spray Fixed Systems for Fire Protection
NFPA 16 -	Standard for the Installation of Deluge Foam-Water Sprinkler Systems and Water Spray Systems
NFPA 17 -	Standard for Dry Chemical Systems
NFPA 17A -	Standard on Wet Chemical Systems
NFPA 20 -	Standard for the Installation of Centrifugal Fire Pumps
NFPA 22 -	Standard for Water Tanks for Private Fire Protection
NFPA 24 -	Standard for the Installation of Fire Service Mains and Their Appurtenances
NFPA 25 -	Inspection, Testing and Maintenance of Water Based Fire Protection Systems
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	Installation, Maintenance and Use of Protective Signaling Systems
NFPA 72E -	Standard on Automatic Fire Detectors
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 170 -	Firesafety Symbols (Formerly NFPA 12)
NFPA 231 -	General Storage
NFPA 231C -	Rack Storage of Materials
NFPA 409 -	Aircraft Hangers

See the NICET Special Hazards Systems Program Detail Manual for additional suggested references.

Note 2 – NICET Certification to Level III in Fire Protection Engineering Technology, sub field of Special Hazards System Layout, will be considered an equivalent to the FSS Class III Exams.

CLASS IIId FIRE SUPPRESSION SYSTEM CERTIFICATE

[Engineered Dry Chemical]

Section 1 – Scope of work which may be performed

A Class IIId Fire Suppression System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain engineered dry chemical fire suppression systems

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class IIId Certification Examination (FSS Class IIId Exam)

(Note 2)

The Fire Suppression System Class IIId Certificate Exam is an exam consisting of questions from the following 23 NICET work elements. Successful completion of this exam requires passing all 23 work elements.

51001 – SIMPLE PLANS AND SPECIFICATIONS
51002 – NFPA STANDARDS
51003 – SPRINKLER AND FIRE SUPPRESSION SYSTEMS
51005 – STANDARD SYMBOLS
52004 – LAYOUT SIMPLE DESIGNS
53002 – HAZARD ANALYSIS
53003 – DETECTION METHODS
53004 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
53005 – EXTINGUISHING AGENTS
53006 – SMOKE SENSING DETECTORS
53007 – ELECTRICAL INSTALLATION STANDARDS
53010 – HEAT SENSING DETECTORS
54005 – FLAME DETECTORS
54006 – FIRE GAS DETECTORS
54008 – DRY CHEMICAL I
55001 – CONSTRUCTION PLANS
55003 – SYSTEM PIPING REQUIREMENTS
55004 – NOZZLE AND TANK LOCATION
56001 – HEAT SENSING PROTECTION SYSTEMS
56002 – SMOKE SENSING PROTECTION SYSTEMS
56003 – FLAME SENSING PROTECTION SYSTEMS
56004 – FIRE DETECTING SYSTEMS
56008 – DRY CHEMICAL II

Section 3 – Reference Materials

SFPR	Delaware State Fire Prevention Regulations
NFPA 10 -	Standard for Portable Fire Extinguishers
NFPA 11 -	Standard for Foam Extinguishing Systems
NFPA 11A -	Standard for High Expansion Foam Systems (Expansion Ratios from 100:1 to 1000:1)
NFPA 12 -	Standard on Carbon Dioxide Extinguishing Systems
NFPA 12A -	Standard on Halon 1301 Fire Extinguishing Systems
NFPA 12B -	Standard on Halon 1211 Fire Extinguishing Systems
NFPA 13 -	Standard for the Installation of Sprinkler Systems
NFPA 13D -	Sprinkler Systems in One and Two Family Dwellings and Mobile Homes
NFPA 13R -	Sprinkler Systems in Residential Occupancies Up To and Including Four Stories in Height
NFPA 14 -	Standard for the Installation of Standpipe and Hose Systems
NFPA 15 -	Standard for Water Spray Fixed Systems for Fire Protection
NFPA 16 -	Standard for the Installation of Deluge Foam-Water Sprinkler Systems and Water Spray Systems
NFPA 17 -	Standard for Dry Chemical Systems
NFPA 17A -	Standard on Wet Chemical Systems
NFPA 20 -	Standard for the Installation of Centrifugal Fire Pumps
NFPA 22 -	Standard for Water Tanks for Private Fire Protection
NFPA 24 -	Standard for the Installation of Fire Service Mains and Their Appurtenances
NFPA 25 -	Inspection, Testing and Maintenance of Water Based Fire Protection Systems
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	Installation, Maintenance and Use of Protective Signaling Systems
NFPA 72E -	Standard on Automatic Fire Detectors
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 170 -	Firesafety Symbols (Formerly NFPA 12)
NFPA 231 -	General Storage
NFPA 231C -	Rack Storage of Materials
NFPA 409 -	Aircraft Hangers

See the NICET Special Hazards Systems Program Detail Manual for additional suggested

Note 2 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Special Hazards System Layout, will be considered an equivalent to the FSS Class III Exams.

CLASS IV FIRE SUPPRESSION SYSTEM CERTIFICATE

Section 1 – Scope of work which may be performed

A Class IV Fire Suppression System Certificate will allow the certificate holder to prepare technical documents, install, inspect, test and maintain residential fire suppression systems (typical of NFPA 13D systems).

Section 2 – Examination Requirements (SFPR Exam)

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class IV Certification Examination (FSS Class IV Exam)

The Fire Suppression System Class IV Certification Exam is based on NFPA 13D.

Section 3 – Reference Material

SFPR
NFPA 13D -

State Fire Prevention Regulations
Installation of Sprinkler Systems in One- and Two-Family Dwellings and Mobile Homes

CLASS V FIRE SUPPRESSION SYSTEM CERTIFICATE

Section 1 – Scope of work which may be performed

A Class V Fire Suppression System Certificate will allow the certificate holder to perform inspection, testing and maintenance service of pre-engineered fire protection systems.

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class V Certification Examination (FSS Class V Exam)

A manufacturers certification in specific systems is to be considered equivalent to a Class V Certificate in the specific category.

CLASS VI FIRE SUPPRESSION SYSTEM CERTIFICATE

Section 1 – Scope of work which may be performed

A Class VI Fire Suppression System Certificate will allow the certificate holder to perform inspection, testing and maintenance service of Fire Suppression Systems under Class II, III, IV Certificates.

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class II Certification Examination (FSS Class II Exam)

(Note 1)

The Fire Suppression System Class II Certificate Exam is an exam consisting of questions from the following 37 NICET work elements. Successful completion of this exam requires passing all 37 work elements.

- 11001 – PLANS, SPECIFICATIONS AND CONTRACTS
- 11002 – PREPARE SIMPLE DESIGNS
- 11003 – NFPA STANDARDS
- 11004 – BASICS OF SPRINKLER SYSTEMS
- 11005 – BASIC MATERIALS AND COMPONENTS
- 13001 – CONSTRUCTION PLANS
- 13002 – FIRE PROTECTION PLANS AND SYMBOLS
- 13005 – BASIC MATERIALS AND COMPONENTS
- 13006 – CLASSIFICATIONS OF OCCUPANCIES
- 13007 – WATER SUPPLY REQUIREMENTS
- 13008 – SYSTEM CONNECTIONS
- 13009 – SYSTEM PIPING CONFIGURATIONS, SCHEDULES AND SIZES
- 13010 – REQUIREMENTS OF SPACING
- 13011 – SPRINKLER LOCATION AND POSITION
- 13012 – PIPE JOINING TECHNIQUES AND FITTINGS
- 13013 – PIPE HANGARS AND HANGING
- 13014 – WET AND DRY SYSTEMS
- 13015 – HYDRAULIC CALCULATIONS OF SYSTEMS
- 13016 – UNDERGROUND PIPING
- 13017 – BUILDING CODES
- 13023 – SPECIAL SPRINKLERS
- 13024 – WATER FLOW TESTS
- 13025 – FUNDAMENTALS OF HYDRAULICS
- 14002 – SELECTION OF FIRE PUMPS
- 14004 – PUMP FLOW TEST
- 14005 – HIGH PILED STORAGE
- 14006 – RACK STORAGE
- 14007 – SPRINKLER SYSTEM MAINTENANCE
- 14009 – STANDPIPE SYSTEMS
- 14010 – FIRE PUMPS AND SYSTEMS
- 14011 – STORAGE TANKS
- 14012 – ALARMS AND SYSTEM SUPERVISION
- 14013 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
- 14016 – SURVEYS FOR FIRE PROTECTION
- 15005 – SHOP AND ERECTION DRAWINGS
- 15007 – SYSTEM ACCEPTANCE TESTS
- 15016 – HYDRAULIC DESIGN AREA

Combination of all Fire Suppression System Class IIIa thru IIIc Certification Exams

(FSS Class IIIa thru IIIc Exams)

(Note 2)

To meet the Exam Requirements for FSS Class I, the applicant must successfully complete all 32 required NICET work elements for FSS Class IIIa thru IIIc. The 32 work elements required are as follows:

- 51001 – SIMPLE PLANS AND SPECIFICATIONS
- 51002 – NFPA STANDARDS
- 51003 – SPRINKLER AND FIRE SUPPRESSION SYSTEMS
- 51005 – STANDARD SYMBOLS
- 52004 – LAYOUT SIMPLE DESIGNS
- 53002 – HAZARD ANALYSIS
- 53003 – DETECTION METHODS
- 53004 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
- 53005 – EXTINGUISHING AGENTS

53006 – SMOKE SENSING DETECTORS
 53007 – ELECTRICAL INSTALLATION STANDARDS
 53010 – HEAT SENSING DETECTORS
 53011 – FOAM WATER I
 53012 – CARBON DIOXIDE I
 54005 – FLAME DETECTORS
 54006 – FIRE GAS DETECTORS
 54007 – HALON 1301 I
 54008 – DRY CHEMICAL I
 54014 – INERGEN (IG- 541)
 54015 – FM-200 (HFC-227ea)
 54016 – FE-13 (HFC-23)
 55001 – CONSTRUCTION PLANS
 55003 – SYSTEM PIPING REQUIREMENTS
 55004 – NOZZLE AND TANK LOCATION
 56001 – HEAT SENSING PROTECTION SYSTEMS
 56002 – SMOKE SENSING PROTECTION SYSTEMS
 56003 – FLAME SENSING PROTECTION SYSTEMS
 56004 – FIRE DETECTING SYSTEMS
 56005 – FOAM WATER II
 56006 – HALON 1301 II
 56007 – CARBON DIOXIDE II
 56008 – DRY CHEMICAL II

Fire Suppression System Class IV Certification Examination (FSS Class IV Exam)

The Fire Suppression System Class IV Certification Exam is based on NFPA 13D.

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 10 -	Standard for Portable Fire Extinguishers
NFPA 11 -	Standard for Foam Extinguishing Systems
NFPA 11A -	Standard for High Expansion Foam Systems (Expansion Ratios from 100:1 to 1000:1)
NFPA 12 -	Standard on Carbon Dioxide Extinguishing Systems
NFPA 12A -	Standard on Halon 1301 Fire Extinguishing Systems
NFPA 12B -	Standard on Halon 1211 Fire Extinguishing Systems
NFPA 13 -	Standard for the Installation of Sprinkler Systems
NFPA 13D -	Sprinkler Systems in One and Two Family Dwellings and Mobile Homes
NFPA 13R -	Sprinkler Systems in Residential Occupancies Up To and Including Four Stories in Height
NFPA 14 -	Standard for the Installation of Standpipe and Hose Systems
NFPA 15 -	Standard for Water Spray Fixed Systems for Fire Protection
NFPA 16 -	Standard for the Installation of Deluge Foam-Water Sprinkler Systems and Water Spray System
NFPA 17 -	Standard for Dry Chemical Systems
NFPA 17A -	Standard on Wet Chemical Systems
NFPA 20 -	Standard for the Installation of Centrifugal Fire Pumps
NFPA 22 -	Standard for Water Tanks for Private Fire Protection
NFPA 24 -	Standard for the Installation of Fire Service Mains and Their Appurtenances
NFPA 25 -	Inspection, Testing and Maintenance of Water Based Fire Protection Systems
NFPA 70 -	National Electric Code
NFPA 72E -	Standard on Automatic Fire Detectors
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 231 -	General Storage
NFPA 231C -	Rack Storage of Materials
NFPA 409 -	Aircraft Hangars

See the NICET Sprinkler Systems and Special Hazards Program Detail Manuals for additional suggested references.

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Automatic Sprinkler System Layout, will be considered an equivalent to the FSS Class II Exam.

Note 2 – NICET Certification to Level III in Fire Protection Engineering Technology subfield of Special Hazards System Layout, will be considered an equivalent to the FSS Class III Exams.

CLASS VIII FIRE SUPPRESSION SYSTEM CERTIFICATE
(RESERVED FOR IN-HOUSE LICENSEE'S)

Section 1 – Scope of work which may be performed

A Class VIII Fire Suppression System Certificate will allow the certificate holder to perform inspection, testing and maintenance service of wholly owned or proprietary fire suppression systems.

Section 2 – Examination Requirements

State Fire Prevention Regulations Examination (SFPR Exam)

The State Fire Prevention Regulations Exam is based on the State Fire Prevention Regulations. The purpose of this exam is to test for knowledge of the Delaware State Fire Prevention Regulations.

Fire Suppression System Class II Certification Examination (FSS Class II Exam)

(Note 1)

The Fire Suppression System Class II Certification Exam is an exam consisting of questions from the following 37 NICET work elements. Successful completion of this exam requires passing all 37 work elements.

- 11001 – PLANS, SPECIFICATIONS AND CONTRACTS
- 11002 – PREPARE SIMPLE DESIGNS
- 11003 – NFPA STANDARDS
- 11004 – BASICS OF SPRINKLER SYSTEMS
- 11005 – BASIC MATERIALS AND COMPONENTS
- 13001 – CONSTRUCTION PLANS
- 13002 – FIRE PROTECTION PLANS AND SYMBOLS
- 13005 – BASIC OF SYSTEM LAYOUT
- 13006 – CLASSIFICATIONS OF OCCUPANCIES
- 13007 – WATER SUPPLY REQUIREMENTS
- 13008 – SYSTEM CONNECTIONS
- 13009 – SYSTEM PIPING CONFIGURATIONS, SCHEDULES AND SIZES
- 13010 – REQUIREMENTS OF SPACING
- 13011 – SPRINKLER LOCATION AND POSITION
- 13012 – PIPE JOINING TECHNIQUES AND FITTINGS
- 13013 – PIPE HANGERS AND HANGING
- 13014 – WET AND DRY SYSTEMS
- 13015 – HYDRAULIC CALCULATIONS OF SYSTEM
- 13016 – UNDERGROUND PIPING
- 13017 – BUILDING CODES
- 13023 – SPECIAL SPRINKLERS
- 13024 – WATER FLOW TESTS
- 13025 – FUNDAMENTALS OF HYDRAULICS
- 14002 – SELECTION OF FIRE PUMPS
- 14004 – PUMP FLOW TEST
- 14005 – HIGH PILED STORAGE
- 14006 – RACK STORAGE
- 14007 – SPRINKLER SYSTEM MAINTENANCE
- 14009 – STANDPIPE SYSTEMS
- 14010 – FIRE PUMPS AND SYSTEMS
- 14011 – STORAGE TANKS
- 14012 – ALARMS AND SYSTEM SUPERVISION
- 14013 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
- 14016 – SURVEYS FOR FIRE PROTECTION
- 15005 – SHOP AND ERECTION DRAWINGS
- 15007 – SYSTEM ACCEPTANCE TESTS
- 15016 – HYDRAULIC DESIGN AREA

Combination of all Fire Suppression System Class IIIa thru IIIId Certification Exams

(FSS Class IIIa thru IIIId Exams)

(Notes 2 and 3)

To meet the Exam Requirements for FSS Class I, the applicant must successfully complete all 32 required NICET work elements for FSS Class IIIa thru IIIId. The 32 work elements required are as follows:

- 51001 – SIMPLE PLANS AND SPECIFICATIONS
- 51002 – NFPA STANDARDS
- 51003 – SPRINKLER AND FIRE SUPPRESSION SYSTEMS
- 51005 – STANDARD SYMBOLS
- 52004 – LAYOUT SIMPLE DESIGNS
- 53002 – HAZARD ANALYSIS
- 53003 – DETECTION METHODS
- 53004 – FUNDAMENTALS OF FIRE EXTINGUISHMENT
- 53005 – EXTINGUISHING AGENTS

53006 – SMOKE SENSING DETECTORS
 53007 – ELECTRICAL INSTALLATION STANDARDS
 53010 – HEAT SENSING DETECTORS
 53011 – FOAM WATER I
 53012 – CARBON DIOXIDE I
 54005 – FLAME DETECTORS
 54006 – FIRE GAS DETECTORS
 54007 – HALON 1301 I
 54008 – DRY CHEMICAL I
 54014 – INERGEN (IG- 541)
 54015 – FM-200 (HFC-227ea)
 54016 – FE-13 (HFC-23)
 55001 – CONSTRUCTION PLANS
 55003 – SYSTEM PIPING REQUIREMENTS
 55004 – NOZZLE AND TANK LOCATION
 56001 – HEAT SENSING PROTECTION SYSTEMS
 56002 – SMOKE SENSING PROTECTION SYSTEMS
 56003 – FLAME SENSING PROTECTION SYSTEMS
 56004 – FIRE DETECTING SYSTEMS
 56005 – FOAM WATER II
 56006 – HALON 1301 II
 56007 – CARBON DIOXIDE II
 56008 – DRY CHEMICAL II

Fire Suppression System Class IV Certification Examination (FSS Class IV Exam)

(Note 4)

The Fire Suppression System Class IV Certification Exam is based on NFPA 13D.

Section 3 – Reference Material

SFPR	Delaware State Fire Prevention Regulations
NFPA 10 -	Standard for Portable Fire Extinguishers
NFPA 11 -	Standard for Foam Extinguishing Systems
NFPA 11A -	Standard for High Expansion Foam Systems (Expansion Ratios from 100:1 to 1000:1)
NFPA 12 -	Standard on Carbon Dioxide Extinguishing Systems
NFPA 12A -	Standard on Halon 1301 Fire Extinguishing Systems
NFPA 12B -	Standard on Halon 1211 Fire Extinguishing Systems
NFPA 13 -	Standard for the Installation of Sprinkler Systems
NFPA 13D -	Sprinkler Systems in One and Two Family Dwellings and Mobile Homes
NFPA 13R -	Sprinkler Systems in Residential Occupancies Up To and Including Four Stories in Height
NFPA 14 -	Standard for the Installation of Standpipe and Hose Systems
NFPA 15 -	Standard for Water Spray Fixed Systems for Fire Protection
NFPA 16 -	Standard for the Installation of Deluge Foam-Water Sprinkler Systems and Water Spray Systems
NFPA 17 -	Standard for Dry Chemical Systems
NFPA 17A -	Standard on Wet Chemical Systems
NFPA 20 -	Standard for the Installation of Centrifugal Fire Pumps
NFPA 22 -	Standard for Water Tanks for Private Fire Protection
NFPA 24 -	Standard for the Installation of Fire Service Mains and Their Appurtenances
NFPA 25 -	Inspection, Testing and Maintenance of Water Based Fire Protection Systems
NFPA 70 -	National Electric Code
NFPA 71 -	Standard for the Installation, Maintenance and Use of Signaling Systems for Central Station Service
NFPA 72 -	Installation, Maintenance and Use of Protective Signaling Systems
NFPA 72E -	Standard on Automatic Fire Detectors
NFPA 101 -	Code for Safety to Life from Fire in Buildings and Structures
NFPA 170 -	Firesafety Symbols (Formerly NFPA 12)
NFPA 231 -	General Storage
NFPA 231C -	Rack Storage of Materials
NFPA 409 -	Aircraft Hangers

See the NICET Sprinkler Systems and Special Hazards Program Detail Manuals for additional suggested references.

Note 1 – NICET Certification to Level III in Fire Protection Engineering Technology, Subfield of Automatic Sprinkler System Layout, will be considered an equivalent to the FSS Class II Exam.

Note 2 – NICET Certification to Level III in Fire Protection Engineering Technology, subfield of Special Hazards System Layout, will be considered an equivalent to the FSS Class III Exams.

Note 3 – Class III Certification will not be required for those In-House Licensee's that are not inspecting, testing or maintaining special hazards systems.

Note 4 – Class IV Certification will not be required for those In-House Licensee's that are not inspecting, testing or maintaining fire suppression systems in one and two family dwellings.

SELECTED GENERAL REFERENCES
(Provided by NICET)

- Annual Book of ASTM Standards. American Society for Testing and Materials. Philadelphia, Pennsylvania.
- Architects' and Engineers' Guide to Automatic Sprinklers in Building Codes. National Fire Sprinkler Association. Patterson, New York.
- Bouchard, John K. Automatic Sprinkler Systems Handbook. National Fire Protection Association. Quincy, Massachusetts.
- Bryan, John, L. Automatic Sprinklers & Standpipe Systems. National Fire Protection Association. Quincy, Massachusetts.
- Bryan, John, L. Fire Suppression and Detection Systems. National Fire Protection Association. Quincy, Massachusetts.
- Casey, James, F. Fire Suppression and Detection Systems. National Fire Protection Association, Batterymarch Park, Quincy, MA 02169, 1-800-344-3555.
- Clough, Richard H. Construction Contracting John Wiley & Sons, Inc. New York, NY
- Dunham, Clarence W. and Young, Robert D. Contracts, Specifications and Law for Engineers. McGraw-Hill, New York, NY
- Electrical Construction Materials Directory. Underwriters Laboratories, Inc. 333 Pfingston Rd., Northbrook, IL 60062, 312-272-8800
- Fire Protection Equipment Directory. Underwriters Laboratories, Inc. Northbrook, IL
- Fire Protection Handbook. National Fire Protection Association, Batterymarch Park, Quincy, MA 02169, 1-800-344-3555.
- Fire Protection Through Modern Building Codes. American Iron and Steel Institute. Washington, DC
- Guide for Sprinkler Plan Review. National Fire Sprinkler Association, Inc. Patterson, New York.
- Handbook of Industrial Loss Prevention. Factory Mutual Engineering Corporation. McGraw-Hill. New York, NY.
- Hayden, Jack, J. and Kirby, Tim. Project Manual Development Section Guide – Automatic Sprinkler Systems. National Fire Sprinkler Association, Patterson, New York.
- International Fire Service Training Association Manuals #401. "Fundamental Principles of Mathematics Applied to the Fire Service." Stillwater, Oklahoma.
- International Fire Service Training Association Manuals #402. "Fundamental Principles of Science Applied to the Fire Service." Stillwater, Oklahoma.
- NFPA Inspection Manual. National Fire Protection Association, Batterymarch Park, Quincy, MA 02169, 1-800-344-3555.

NOTE 1 : THIS LISTING IS NOT INTENDED TO BE COMPLETE OR REPRESENTATIVE.

NOTE 2 : NFPA Selected References of NICET for editions can be found on NICET Website @
<http://www.nicet.org/fireprotectionstandards.pdf>